



Government of West Bengal  
Office of the Principal  
Nil Ratan Sircar Medical College  
Kolkata – 700014; Phone: 033-2286-0033  
Website: [www.nrsmc.edu.in](http://www.nrsmc.edu.in); e-mail: [principalnrsmc@gmail.com](mailto:principalnrsmc@gmail.com)

Memo No. NMC/STORE/779

Dated: 19/02/2026

**Re-E-TENDER NOTICE (NIT No: 27 / 25-26) FOR PURCHASE AND INSTALLATION OF  
DEFFERENTS EQUIPMENTS FOR THE DEPARTMENT OF HEAMATOLOGY & UROLOGY OF NIL RATAN  
SIRCAR MEDICAL COLLEGE, KOLKATA – 14**

**(Through Pre-qualification)  
(Submission of Bid through NIC e- tender portal)**

The Principal, Nil Ratan Sircar Medical College, Kolkata – 700014, is going for e-Tender on behalf of the Health & Family Welfare Department, Government of West Bengal for obtaining the rate of equipment as per list from bonafide Manufacturer/Direct Importer/Authorized Distributors. Necessary earnest money to be submitted for participation in the Tender is appended in the table below. Exemption of EMD is applicable to agencies having valid, item specific certificate issued by appropriate authority of Govt. of West Bengal.

Serial No	Name of item	Department	Quantity	Earnest Money
1	Capillary GI Electrophoresis	Hematology	1 pc	Rs.75000.00
2	Hemoglobin HPLC equipment for newborn screening by DBS	Hematology	1 pc	Rs.80000.00
3	NGS Device	Hematology	1 pc	Rs.5,60,000.00
4	Semirigid Ureterorenoscope	Urology	1 pc	Rs.30000.00

**All bidders must complete their technical demonstration of their quoted items within ten (10) days from the date of opening of technical bid to the concern Department.**

**1. General Instructions:**

In the event of e-filing, intending bidder may download the tender documents free of cost from the website: <http://wbtenders.gov.in> directly with the help of Digital Signature Certificate or from the Health & Family Welfare Department's website [www.wbhealth.gov.in](http://www.wbhealth.gov.in).

**2. Submission of Bids:**

Both Technical Bid and Financial Bid are to be submitted concurrently duly digitally signed, in the website <http://wbtenders.gov.in>. All papers must be submitted in English language.

**3. Time Schedules:**

The time schedule for obtaining the bid documents, pre bid meetings, registration with the tendering authorities, the submission of bids and other documents etc. will be as per **the list provided in clause no 23** as given below. Bidder are instructed to wait for uploading any corrigendum arising during pre bid meeting, before submitting their bid online

**4. Eligibility for Quoting:**

**Only Manufacturers/direct Importers/Authorized Distributors are eligible for quoting.** The price is to be quoted in Indian Rupees including cost of insurance, packing, forwarding, freight charges,

clearing charges and installation of the new instrument and exclusive of GST and other taxes which are to be quoted separately in the BOQ. Agency commission is not permissible.

**5. Submission of Tender:**

The tender is to be submitted in Two Bid System (Technical Bid or Bid A & Financial Bid or Bid B).

**(A) Technical Bid or Bid A:**

**"BID A": PART I**

**File containing Technical Bid only - single file with multiple scanned pages containing Statutory and My documents separately.**

**(a) STATUTORY** Cover containing the following documents:

(SINGLE FILE MULTIPLE PAGE SCANNED)

Essential Requirements of the Tendering Firm for participation" shall contain all papers related to the essential requirements of the Renderer for participation in the tender viz.

Sl. No.		Page no
1	<b>Duly filled in CHECK LIST in the prescribed format. Page number of documents must be mentioned in the check list before uploading the same.</b>	
2	Application in the prescribed format given in Annexure I	
4	Copy of agreement between the manufacturer and the Distributor in Annexure II	
5	No conviction certificate in the form of an Affidavit as per Annexure-III	
6	A Proof of submission of applicable EMD	

**(b) NON STATUTORY/MY DOCUMENTS** Cover Containing the following documents:

Essential Requirements of the Tendering Firm for participation” shall contain all papers related to the essential requirements of the Renderer for participation in the tender viz.

Sl. No.	Category	Sub Category	Sub Category Description	Page No
A	Certificates	A1. Certificates	PAN Card of the authorized signatory	
			Professional Tax Registration certificate	
			GST Registration certificate	
B		C2 : CREDENTIAL 2	A declaration in respect of existence of a fully equipped service centre in or around Kolkata in respect of the relevant item.	
			List of purchaser in Govt. Institutions of repute, for last two years	
C.	FINANCIAL INFO	PAYMENT CERTIFICATE 1	Income Tax Returns submitted for the last three years	
		Audited P/L & BALANCE SHEET		
			P/L & Balance sheet of the last three years	

**BID A”: PART II**

Technical specifications of Instrument (in PDF/Excel format. Must mention Make, Model, exact features of the offered item against each point given in the specification chart). **Improper filling &/or suppression of facts/false statement will lead to disqualification and penalty in the form of permanent black listing.**

**(B) Financial Bid B**

**COVER “B”:** Separate file containing financial document only.

(a) Financial Bid: BOQ in INR (in excel sheet)

The folder marked as “Financial Bid” shall contain ALL INCLUSIVE PRICE in INR only and should include base price along with the cost of allied works and services which are to be undertaken (like installation, commissioning of equipment or PC etc.), cost of insurance, packaging, forwarding, delivery charges, clearing charges of the new instrument to be purchased. GST and any other applicable tax. should be quoted separately. Five years CAMC rate should also be quoted separately in the template for Bill of Quantities (BOQ) just for reference for future.

**However, the L1 will be determined on basic rate with cost of warranty period ( mentioned in the specification) with five years CMC . GST quoted will be directly remitted to Government account as per existing norms of Finance Department.**

**While preparing BOQ ,in basic rate column (cell no M13) ,company should quote basic rate with cost of warranty period that is mentioned in the specification.**

**If warranty period not mentioned in the specification, in that case warranty period will be treated as 01 (one) year only.**

The Tenderers are not required to submit the hard copies of Cover A (Transaction document of EMD , General Documents and Technical Specifications) .

#### **6. Evaluation of Tender:**

During tender evaluation process, "Bid A" will be opened first. Those tenderers who would qualify the Statutory & Non-Statutory requirements on the basis of technical and commercial documents will be identified and "Bid B" i.e. financial bid of only those qualified bidders will be opened. Verification of hard copies of the audited balance sheet and Profit & Loss Accounts of the Tenderers for the last three years will be made if deemed necessary before opening the Financial Bid (Bid B) of the technically qualified bidders. If found suitable on the basis of above pre-qualification, the tenderer quoting the lowest rate, will be considered as successful.

#### **7. Earnest Money:**

The earnest money of the tenderer is liable to be forfeited if the tenderer withdraws his tender as a whole or for any particular item or items at any stage after opening of the tender or fails/refuses to enter into written agreement for any or all of the items of his accepted bid within the time specified when requested to do so or fails to furnish Performance Bank Guarantee within the stipulated time. **EMD should be deposited online in the Pooling Account of Government of West Bengal maintained at ICICI Bank, RN Mukherjee Road Branch in the manner as prescribed in Government Order no. 3975-F(Y) dated 28/07/2016. (Order copy is available at the site-[www.wbfin.nic.in](http://www.wbfin.nic.in))** Hard copy of Bid A should reach the office on or before the stipulated date as mentioned in clause 23.

#### **8. Rate:**

The price is to be quoted in INR only including cost of insurance, entry tax, packaging, forwarding, delivery charges, clearing charges and installation of the new instrument. The basic rate should be furnished inclusive of Transportation Cost, Insurance, Testing Charges, Incidental Charges etc. but excluding GST and any other applicable taxes etc. which should be quoted separately in the template for Bill of Quantities (BOQ).

#### **9. Order & Supply:**

The tendering authority has the liberty to ask for **performance demonstration** of any item during any stage of the tender process, before placing order for supply. In case of dissatisfaction, the authority will have the right to disapprove the offer of L1 bidder and go for the next bidder. Orders for supply of the approved products will be placed with the successful tenderers after execution of agreements and such supply shall have to be made in such installments as may be fixed or spread over the period to be specified in the supply orders to be made in pursuance of the agreements. The equipment is to be transported in such packaging so as to avoid damage to primary package of manufacturer. The successful tenderer will have to supply within the specified time schedule that had been assured at the time of selection as supplier.

**The tendering authority will be at liberty to enhance the quantity of the item tendered up to 40% of the original required quantity. Bidder will have to consider the same while bidding as supply of the enhanced quantity will be mandatory as the original one.**

#### **10. Withdrawal /Cancellation & Purchase Policy of Tendering Authority:**

The tendering authority reserves the right to withdraw any item from the tender at any stage. The selection of such item, if already made in favour of any tenderer, shall be treated as cancelled. The tendering authority reserves the right to reject or accept any tender or part thereof at any stage or to split any tender without assigning any reason. Withdrawal of tender or any revision after submission of tender by the tenderer will not be allowed.

Purchase will, however be made following the existing purchase policy of the Govt. of West Bengal and its amendment(s) made from time to time. The purchase policy of the State Government as provided in the West Bengal Financial Rules, the policy of price preference in particular incorporated under Notification No. 10500-F dated 19.11.04, 5400-F(Y) Dated 25/06/2012 and subsequent relevant orders should be observed in considering the tenders.

**11. Important Instruction with regard to Submission of Tender:**

The rate should be quoted in Indian Rupees for a particular brand or model (model no. of the offered item only must be mentioned in the appropriate column of the 'Tender Form'. Alternative offer will not be accepted). The tender shall be cancelled for the quotation of item without its brand name, model, model no. etc. Detail information regarding the manufacturer and the item quoted in the 'Tender Form' should be furnished.

**12. Spare Parts:**

The Bidder will undertake that supplies of necessary maintenance equipment and spare parts will be made available for all items/equipment and the complete system for at least five years on a continuing basis. However, this does not relieve the supplier of any warranty obligations under the contract.

**13. Guarantee / Warranty Period:**

i) The machine/Instrument should be covered by free on-site comprehensive Warranty for one year after successful installation. The tenderers must quote for 5 (Five) years' comprehensive on-site AMC of entire system (including all spares & labour) after the date of completion of free warranty period. The CAMC charges for 5 years to be quoted in the BOQ, will however be determined on extant Govt. rules in this regard.

ii.) All faults appearing and their rectification shall be periodically advised to the institute, the period being not more than two weeks.

iii.) Any lacuna or lacunae noticed in the functioning of the installation as a result of any design or other feature shall be rectified by the supplier free of cost within 72 hours of call log.

**14. After Sales Services and Maintenance Contract:**

After sales service must be provided by the supplier, during and after warranty period of the equipment. Selected vendor will remain liable to attract penalty for violation of machine downtime as per agreement. The selected vendor or his authorized servicemen has to attend the machine within 72 hours of Call Log. It is desirable to have a fully equipped service centre in or around Kolkata.

**15. Delivery, Installation and Commissioning**

i. Delivery of the goods at the purchaser's premises shall be completed by the Supplier in accordance with the terms specified by the purchaser.

ii. The installation, testing and commissioning of the proposed system shall be completed in accordance with the order.

iii. All items are to be delivered within six weeks from the date of placement of order.

iv. In case of distributor, the firm should be direct distributor of manufacturing unit. **Sub distributor authorization by distributor will not be accepted at all.**

**16. Penalty Clauses:**

**PENALTY FOR FORMATION OF CARTEL OR FURNISHING OF FRAUDULENT/ MISLEADING DOCUMENTS:** If during the tender process or at any stage during the validity of the tender period, it is found that a tenderer(s) has formed a cartel in what so ever form or name to fix up the rates or suppliers to the detriment of the fairness of the tender process, penal measures shall be initiated. Similar penal measures shall also be initiated against those tenderers who have submitted false/ misleading/ fraudulent documents or made incorrect declarations. The penal measure will be forfeiture of Earnest Money, forfeiture of Performance Bank Guarantee if enlisted as a supplier in addition to any other legal action against the firm.

**17. Appeal:**

Appeal against the decision of the Principal, Nil Ratan Sircar Medical College, Kolkata and then to impose such a penalty will lie with Tender Selection Committee. Review against the decision of the Tender Selection Committee (TSC) will lie with Health & F.W. Dept. of the Govt. of W.B. The Special Secretary/Secretary/Principal Secretary will be the appellate authority within the Department of Health & Family Welfare, Government of West Bengal. Before imposing any penalty as per clauses 20, 21 and 22 the concerned supplier may appeal to the authority citing the proper reasons for non- imposing the penalty as stated.

**18. Agreement:**

On a tender being accepted, intimation of acceptance will be forwarded to the tenderer by Principal, Nil Ratan Sircar Medical College, Kolkata. After communication of the same, the tenderer will have to execute agreement in the prescribed form with the Principal, Nil Ratan Sircar Medical College, Kolkata. In case any direct purchasing unit wishes to go for a separate agreement, the head of the purchasing unit must get written permission to that effect from his controlling authority. This present document and the tender forms filled in by the tenderer or copies thereof in so far as they are not inconsistent with these terms & conditions will be incorporated as part of the agreement. Such agreement will be binding on the tenderer.

**19. Validity Period of Agreement:**

The contract period will be for a period 01 (one) years from the date of finalization of tender **which can be extended for a further period of 6 months if Tender Selection Committee feels necessary.**

**20. Performance Bank Guarantee:**

The performance bank guarantee will be mandatory for all suppliers and will not be waived in any case. The successful tenderers shall be required to furnish the 'Performance Bank Guarantee' from any Nationalized/Scheduled Bank acceptable to Govt. of West Bengal for One year @ 10% of quoted base rate per item for which the tenderer has been selected as supplier. The performance bank guarantee will have to be renewed after completion of Free Warranty period, for additional 5 (Five) years under the paid CAMC period before transfer of the CAMC amount to bidder's account. Mentioning of West Bengal Government Pooling Account for Performance Bank Guarantee No. 000605030134 IFS Code ICIC0000006 MICR 70229002 at ICICI Bank, RN Mukherjee Road Branch, Kolkata on the body of Performance Bank Guarantee is made mandatory vide Finance Department GO No. 2691-F(Y) dated 02/05/2017.

**21. Inspection:** Before submitting the tender, the intending tenderers should thoroughly get acquainted themselves with the proposed supply and installation by local inspection of site and take into consideration the site condition and other criterion for effecting smooth supply. No claim whatsoever will be entertained afterwards.

**22. Payment Terms:**

Payment will be made electronically by Govt. of West Bengal approved system after execution of due supply and successful installation as ordered, subject to :

i. Submission of Performance Bank Guarantee in terms of Clause 20 and subject to penalty clause in terms of Clauses 16.

ii. Supply of the materials as per specification as provided in the tender documents and the catalogue. Supply of the materials must be made within the stipulated period as specified in the work orders.

iii. On being selected, the successful vendors will have to submit one application to the Principal, Nil Ratan Sircar Medical College, Kolkata stating the name of the payee/recipient, Bank account no with IFS code of the payee/recipient for making e-payment. Payment will only be released after satisfactory installation and verification of following items-

1. Supplier's invoice in original
2. Challan and installation certificate
- 3 Any other thing of importance on the discretion of College Authorities

**23. Dates & Information:**

S. No	Items	Dates
1	Date of uploading of N.I.T. Documents (online) from this end.	24.02.2026, 5.00 P.M.
2	Documents download start date (Online)	24.02.2026, 5.00 P.M.
3	Date of hoisting of documents at Departmental Website ( <a href="http://www.wbhealth.gov.in">www.wbhealth.gov.in</a> )	24.02.2026, 5.00 P.M.
4	Date of Pre Bid Meeting and workshop with the intending bidders at the office of the Principal of NRS Medical College	26.02.2026, at 12.30 P.M
5	Bid Submission starting (On line)	27.02.2026, 4.00 P.M. onwards
6	Bid Submission closing (On line)	23.03.2026 at 4 P.M.
7	Bid opening technical bid(online) (Bid A )	25.03.2026 at 4 P.M.
8	Date of uploading list for Technically Qualified Bidder (online)(Bid A)	27.03.2026, 10 A.M. onwards.
9	Date & for opening of Financial Proposal (Bid B) (Online)	To be declared later
10	Date of uploading of list of bidders along with the approved rate	To be declared later

Principal, Nil Ratan Sircar Medical College, Kolkata, reserves the right to change the above schedule in case of any exigencies after putting up a notice in the departmental website and Notice Board of N R S Medical College, Kolkata.

**24. Validity of Tender:**

- i. The tender will remain valid up to 1 (one) year from the date of finalization of tender **which can be extended for a period of 6 months**. Any objection raised by any bidder in this respect will not be entertained. No informal tenderer will be entertained in the bid further.
- ii. During the scrutiny, if it comes to the notice of tender inviting authority that the credential or any other paper found incorrect/ manufactured/ fabricated, that bidder would not be allowed to participate in the tender and that application will be out rightly rejected without any prejudice.
- iii. Prospective bidders must take training from authorized agencies before submission of their bids.
- iv. The Tender Selection Committee reserves the right to cancel the N.I.T. due to unavoidable circumstances and no claim in this respect will be entertained.

**25. NO- CONVICTION CERTIFICATE:**

No conviction certificate in the form of An Affidavit is to be submitted in the prescribed Pro-forma as Annexure-IV attached herewith from Notary Public/ Judicial Magistrate/Executive Magistrate.

*Devi*  
*19/2/26*  
Principal  
NRS Medical College  
*A* Kolkata-14

**CHECK LIST (MUST BE PROPERLY FILLED)**

**NOTE: For Non applicability for some documents please mention "NA" in the check list. Must be mention page number in the check list.**

S. No	Item	PI put tick or NA	Page No.
1	Application submitted in Annexure I		
2	Annexure II (Copy of agreement between the Manufacturer and the Direct Importer/Distributor)		
3	No conviction certificate in the form of an Affidavit as per Annexure-III.		
4	Income Tax Returns submitted for the last three Assessment years		
5	GST Registration certificate(not provisional)		
6	PAN Card of the organization and authorized signatory.		
7	Audited P/L & Balance sheet of last three years		
8	Technical specifications of Instrument (in PDF/Excel format. Must mention Make, Model, exact features of the offered item against each point given in the specification chart).		
9	Trade License in the name of participating firm		
10	A declaration in respect of existence of a fully equipped service centre in or around Kolkata in respect of the relevant item.		
11	A Proof of submission of applicable EMD		

**ANNEXURE-I**

**APPLICATION FORMAT**

(To be furnished in the Company's official letter pad with full address and contact no etc)

To The Principal, Nil Ratan Sircar Medical College, Kolkata-700014.

Sub: Tender No.-----Dt.------(Name of the Item -1)-----2)-----  
-----3)-----4)-----

----) for purchase and installation of equipment for department of ....., Nil Ratan Sircar Medical College, Kolkata-700014.

Ref:-

Sir,

Having examined the pre-qualification & other documents published in the N.I.T, I /we hereby submit all the necessary information and relevant documents for evaluation:

1. That the application is made by me / us on behalf of.....

In the capacity of.....duly authorized to submit the offer. The authorization letter from the Company is attached in Annexure II.

2. We accept the terms and conditions as laid down in the NIT mentioned above and declare that we shall abide by it for throughout the tender period and its extensions, if any.

3. We are offering rate for the following item /items and assured supply to the Health & Family Welfare Department, Government of West Bengal as per Table-1 (Instrument Specification)

4. a. We propose that the order and bill should be raised in our name.

For liasoning, we have appointed M/S ..... having its office at ..... (Address, contact no and e mail address) as C&F agent /Liasoner /Contact person/..... Others (strike out whichever is not applicable) as per clause ..... of the NIT

b. The agreement between ourselves and the distributor/C&F/Liasoner & other documents as prescribed is attached in annexure III

5. In the event of being selected, supply will be made within the stipulated period excepting the condition which is beyond our control.

6. We understand that:

(a) Tender Selection Committee/ H&FW Dept can amend the scope & value of the contract bid under this project.

(b) Tender Selection Committee/ H&FW Dept reserves the right to reject any application without assigning any reason.

Date :-

Signature of applicant including title  
and capacity in which application is made.

Contact details -

Mobile:

E mail ID:

## **Annexure- II**

- a. Copy of agreement between the Manufacturer and the Direct Importer/Distributor in Annexure -III

### ANNEXURE-III

Draft Affidavit Proforma  
(Notarized on Rs. 100 Stamp Duty)

I, Sri/Smt. ....  
The Managing Director/Proprietor (etc.) of the Firm.  
..... (Name of the firm)  
At (address).....  
P.O. ....  
P.S.....Dist.....  
do hereby solemnly affirm and declare as follows:

- a. That I am not under conviction of any offence making myself liable to be disqualified to supply of Surgical Equipments/Instruments etc. to any Govt. or Govt. undertaking Organization /Institution in the State of West Bengal or other State or States.
- b. My Firm has not been blacklisted at present as a whole or for any item/ items as quoted in this tender by any Govt. or Govt. undertaking Organization /Institution in the State of West Bengal or other State or States in India.
- c. That no case is pending against me or against my Firm in any criminal court of law in connection with the supply of Surgical/hospital equipment/Instruments to the Govt. or Govt. undertaking Organization / Institution in the State of West Bengal or other State or States ( If any case is pending, pl state the details ).
- d. *That, I declare that the item or items quoted by me confirms the specification given in the NIT document or higher standard relating to the specification is provided.*
- e. The duly authenticated Technical Data Sheet is uploaded conforming to the prescribed standard.
- f. That, I also declare that if any information subsequently found incorrect or false will it automatically render the tender submitted by me cancelled and make me liable for penal/legal action as per law of the country.
- g. That I do further affirm that the statements made by me in this tender are true to the best of my knowledge and belief and all the documents attached are genuine & correct.

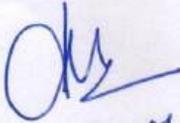
Deponent

## Specifications for Capillary GI Electrophoresis

- The system should be a multi- parametric instrument to perform HbA1c, Hemoglobin Electrophoresis (Variant detection), Serum protein Electrophoresis, Serum protein immunotyping, Urine Protein Electrophoresis, Urine Protein Immunotyping and CDT.
  - The system should be fully automated electrophoresis system based on capillary electrophoresis with two simultaneous migrations with complete walk-away technology including migration and quantitation.
  - The system should use two silica capillaries and electrophoresis in liquid flow.
  - The system should use deuterium lamp with optical fibres for emission and reception.
  - The system should accept Sample cups or primary tubes with barcode reader.
  - The system should have automatic loading and un-loading of reagent cups.
  - The system should have the capacity to load at least up to 27-28 samples.
  - The system should perform direct analysis on EDTA blood for HbA1c/Hemoglobin electrophoresis
  - The system should have cap-piercing & automated on board mixing of blood
  - The system should automatically perform red cell haemolysate on the instrument for Hb electrophoresis & HbA1c.
  - The system should not use any staining procedures and does not use any densitometer for quantification.
  - Software should perform automatic curve analysis with long term storage capacity for results.
  - Software should perform automatic sample dilution for Immunotyping (Standard mode, Hypo gamma mode and Hyper gamma mode)
  - Software should be provided for automatic curve analysis with long term storage capacity for results.
  - The system should have quality control setup and Levy Jennings graph
  - The system software should allow the operator to view pathological samples.
  - The system should have LIS Capability.
  - The minimum throughput of the system should be:
    - Hemoglobin Electrophoresis- at least 7 tests/hour
    - HbA1c – at least 7 tests/hour
    - Serum Protein Electrophoresis- at least 18 tests/hour
    - CDT (Carbohydrate deficient transferrin) -at least 10 tests/hour
  - The company should have an installation base of at least >30 instruments of similar or higher model in India and also have at least 05 years of presence in India supplying reagents and equipment of same technology. Relevant documentation must be provided as proof.
  - The Company should provide at least 6 successful Installation/Completion/ Performance Certificates in reputed Pvt / Govt institutes with 50% (at least 3 nos.) in Govt Institutes of similar or higher model specifically to prove a healthy user base. Relevant documentation must be provided as proof.
- For prompt & effective service + application support, the details of company service personnel at least 2 engineers along with minimum 1 (one) Application Specialist (should be direct company employees & not distributor support) who would be taking care of service & application for Eastern part of India based in any city in East / North-East must be mentioned in particular. Relevant documentation must be provided as proof.
- Instrument must be CE & USFDA approved, ISO certified and validated with CDSCO : all documentation must be attached as a proof.
  - Warranty: 3 years onsite warranty supplied by the vendor with compatible online 3 KVA UPS with 1 hr power backup.

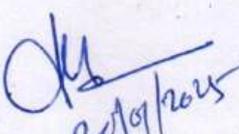
### Specifications for Hemoglobin HPLC equipment for new born Screening by DBS

1. Automated, closed HPLC based system for screening of Hb F, HbA, HbS, HbD, HbE and HbC and some alpha thalassemia conditions such as HbH/Barts in neonates.
2. The system should be able to accept samples of neonatal blood collected by heel prick method on filter paper or dried blood spots.
3. The system should have dual piston pumps with a maximum pressure of 4000 psi & a precision of+ 1%.
4. The system should have a Barcode reader for easy sample identification and bi-directional LIS facility.
5. The system should have dedicated computers and software for operating the system.
6. The software should have customized reporting format (auto interpretation), giving information on the subtype of hemoglobins detected. The software should interpret the results and should be able to give a pattern of normal or abnormal hemoglobin along with the information on the type of Hb.
7. The software provided should allow for real time viewing of the analysis of the sample.
8. The system with the aid of software should be able to print customized reports.
9. The system should be capable of testing greater than 250 samples in a day with a loading capacity of more than 250 samples at a time.
10. The sample testing time should be no more than 3 minutes to enable high throughput screening.
11. The system should have been used in at least 5 newborn sickle cell screening programs in India and should have more than 5 installations in India
12. The company should have an installation base in India and should be able to provide the relevant product and service support in India.
13. Complete ready-to-use reagent kit for at least 1000 tests should be provided with buffers in plastic tanks to view the levels of buffers, Columns, primers and internal controls.
14. The system should have alarms for overflow of waste tank, as well as built in alarms for calibration and equipment failures. The HPLC system should have an inbuilt system check facility which checks that all the system parameters (eg, cartridge, buffer, reagent, waste etc.) are ready before the sample analysis.
15. The reagent containers should have a capacity of more than 2 liters so that the user does not need to change buffers regularly.
16. The system should be US FDA approved for the newborn screening of hemoglobinopathies and for performing test on Dried Blood Spots as well as CE approved.
17. The software should enable result storage of minimum 7000 chromatograms.
18. The system should have online chromatogram library which can help in understanding rare cases.
19. Warranty: 3 years onsite warranty supplied by the vendor with compatible online 3 KVA UPS with 1 hr power backup.

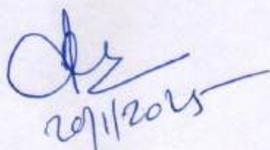
  
20.01.2028  
(Prof.) Dr. Tapas Kanti Doley  
DM; MD; DNB; FICP  
Head of the Department  
Department of Haematology  
NRSMC&H, Kolkata-700 014

### Specification for NGS (Next Generation Sequencing) Device

1. System should be a bench top instrument that enables rapid and scalable sequencing.
2. The quoted system should be supplied with automated library preparation system for targeted sequencing, template preparation and sequencing.
3. System should be able to perform applications like Targeted Hemoglobinopathies sequencing, Targeted RNA sequencing, RNA fusion, Amplicon Sequencing etc.
4. System should be able to perform human exome and transcriptome sequencing in a single run using single chip.
5. System should have capability to generate data output of 25 GB or more high-quality data from a single run.
6. The system should be able to generate at least 100 million single end reads or more from single sequencing run and give flexibility to users to generate data in every run.
7. System should support read length of 200bp, 400bp & 600bp from single end sequencing or better for accommodating different types of applications in the same instrument economically within a short turnaround time within a day.
8. System should include powerful on-board/external hardware with at least 20 TB of usable data storage capacity and must include all necessary software components to deliver signal processing, base calling, read alignment, variant calling, QC report for data, and downstream secondary analysis of data.
9. Software packages should also include features like real time data uploading, internet/cloud based monitoring and secure, and storage solutions.
10. The system should have an option to design custom gene panels to find variants with a very low limit of detection—down to 0.1% for cell-free DNA (cfDNA).
11. System should have availability of custom panel designing option with high-throughput multiplexing capability for around 5000 amplicons in a single reaction.
12. System should be able to work with samples with low-input DNA/RNA or degraded samples and should be able to prepare libraries from at least 10ng of low-quality DNA or RNA.
13. Manufacturers should have off the shelf 384 barcodes in kit format for various applications to perform multiplexing in a single run.
14. System should offer the user-friendly sequencing experience, such as, intuitive touch screen user interface, RFID tracking and pre-mixed/pre-filled integrated reagent cartridge for minimal user intervention.
15. The system should come with 8 capillary Genetic Analyzer as an accessory item with the NGS platform for preliminary screening of clinical samples for Sanger Sequencing and Fragment analysis applications.
16. The 8 capillary Genetic Analyzer Instrument should be a bench top instrument to support various applications like: Genomic Sequencing, de novo/re-sequencing, Targeted Sequencing (Variant Validation) and Microbial Identification, MSI, Fragment analysis applications and comes with relevant data analysis software from original equipment

  
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- manufacturer. System should be capable of running 4 plates (96/384 well) in parallel with one button startup and auto-spectral calibration.
17. The system should come with Essential Accessories to complete the workflow: One unit of Thermal Cycler (high ramp rate), 96-well ; One unit of Thermal Cycler (normal ramp rate) 96-well ; 1 unit of Fluorometer for DNA/RNA quantification, 1 unit of Magnetic stand, 1 unit of E-Gel apparatus with E Gel sizing DNA ladder , PCR workstation, 2 sets of Variable volume micropipettes (0.1-3, 2-10, 10-100, 20-200, 100-1000 uL), 1 unit of Centrifuge with 1.5ml, 2 ml rotor, 4<sup>0</sup>C Fridge, -20<sup>0</sup>C Fridge (vertical), 1 unit of Plate Vortex Mixture, 1 unit of Vortex mixture, 2 unit Mini Centrifuge.
  18. The manufacturer should provide minimum 3 installations of quoted system at various Government Hospitals/Institutions within India. The quoted technology should have adequate number of research publications in peer reviewed journals (minimum 5000).
  19. The quoted model should also provide at least 3 satisfactory performance reports in India.
  20. The quoted model should have CE and ISO certified.
  21. Warranty: 3 years onsite warranty supplied by the vendor with compatible online 3 KVA UPS with 1 hr power backup.



20/11/2015

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Specification for ~~URS~~ *Semirigid Ureteroscope*

A. ~~URS 6.5 Fr~~

1. Uretero-Renoscope, 6.5 Fr 6°, one-step, conical, length 34 cm, autoclavable, with angled eyepiece, fiber optic light transmission incorporated, 2 lateral irrigation ports and 1 working channel 4.8 Fr. for instruments upto 4 Fr., sealing.
2. Distal tip diameter of 6.5Fr.
3. Detachable instrument port with sealing system and quick release lock, one instrument channel.
4. Distal end of sheath atraumatically shaped with rounded tip.
5. Grasping Forceps for stone fragments, double action jaws, 4 Fr., rigid, length 60 cm. x 1 Nos
6. Grasping Forceps for Larger stones and fragments, double action jaws, 4 Fr., rigid, length 60 cm. x 1 Nos
7. Biopsy Forcep, rigid, double action Jaw, 4 Fr. length 60 cm, 1 No.
8. Wire Tray for cleaning and sterilization

All products should from same manufacturer.

*Singh*  
21/1/26

HOD, DEPT. OF UROLOGY  
NRSMCH.